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%Female Rat Liver
%Simulates the posterior mean parameter values from the MCMC analysis
%Plots simulation against the in vitro data

prepare @clear @all
output @clear
FemaleData
WESITG = 0 ;
WEDITG = 0 ;
CJVITG = 0 ;

kk = [];
fkk = [];
tt = [];
km = [];

VVIAL= 0.01165;
VMED= 0.002;
VINJ=0.0003858;
VAIR=VVIAL-VMED;
TSTOP= 1.1; TF=0.; TI=0.2;
PROT = 1.0;
P1=0.69;
%KL = 2.54*(0.6289855*60)/1000 ;
KG = 0.11 ; % 2.54*(0.434*60)/1000 ;
RLOSS = 0.001424 ;
CINT = 0.01 ;
%female Rat Liver
a10a = [];
for pp = IDF_270ppm : IDF_1ppm
    A10 = FratFLiver(1, pp)'*(VAIR+P1*VMED);

%MCMC Redo
    VMAX1 = 0.074 ; %0.26;
    KM1 = 0.87 ; %1.36;
    VK = 0.0 ;
    KG1 = 0.45 ;

start @nocallback
    a10a = [a10a, A10];
    tt = [tt, _time];
    kk = [kk, _call];
    km = [km, _cm1];

end % end of dose loop

%Time 50 ppm      132 ppm      264 ppm
frl = [...]
0      0.052 0.465 1.935 6.243 11.007
0.2    0.015 0.141 0.844 4.46   9.091
0.4    0.006 0.048 0.36   3.274 7.661
0.6    0.003 0.022 0.188 2.479 6.621

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```
0.8    0.002 0.011 0.103 1.958 5.831  
1      NaN   0.007 0.066 1.607 5.202];
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```
plot(tt(:,5), kk(:,5), tt(:,4), kk(:,4), tt(:,3), kk(:,3), tt(:,2),  
kk(:,2), tt(:,1), kk(:,1), ...  
frl(:,1), frl(:,2), frl(:,1), frl(:,3), frl(:,1), frl(:,4), frl(:,1),  
frl(:,5), frl(:,1), frl(:,6), 'fmaleratliver.aps');
```